

WHAT IS CLAIMED IS:

1. A communication terminal having a first radio unit for making radio communication with a base station over a first radio channel having a first radio frequency band, and a second radio unit for making radio communication with another communication terminal by using a second radio channel having a second radio frequency band, the communication terminal comprising:

a first channel establishing section for establishing the first radio channel to the base station through the first radio unit;

a second channel establishing section for establishing the second radio channel to the another communication terminal through the second radio unit; and

a control section for connecting the base station to the another communication terminal over the first and second radio channels.

2. A communication terminal according to claim 1, wherein the another communication terminal includes a master device connected to a public network over a wired channel.

3. A communication terminal according to claim 1, further comprising a telephone number obtaining section for receiving a telephone number of a calling party connected to the base station when the radio channel to the base station is connected by the first channel

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establishing section, wherein

the control section transfers the obtained telephone number to the another communication terminal through the second radio channel.

5           4. A communication terminal according to claim 1, wherein a transmission power of the second radio unit is set to be sufficiently small compared with that of the first radio unit.

10           5. A communication terminal according to claim 4, wherein the transmission power of the second radio unit is 1/10 or less of the transmission power of the first radio unit.

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15           6. A channel connection method for a communication terminal having a first radio unit for making radio communication with a base station over a first radio channel having a first radio frequency band, and a second radio unit for making radio communication with another communication terminal by using a second radio channel having a second radio frequency band, the method comprising steps of:

establishing the first radio channel to the base station through the first radio unit;

25           establishing the second radio channel to the another communication terminal through the second radio unit; and

connecting the base station to the another communication terminal over the first and second radio

channels.

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claim 6, further comprising steps of:

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second radio unit; and

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claim 7, further comprising steps of:

base station is connected by the first radio unit;

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master device for connecting a radio channel in

*Sub #1* accordance with the telephone number.

10. A channel connection method according to claim 7, further comprising steps of:

5 receiving a telephone number of a calling party connected to the base station when the radio channel to the base station is connected by the first radio unit; transferring the telephone number of the calling party to the another communication terminal through the second radio unit; and

10 making a second call to the calling party from the another communication terminal through the master device connected to the public network over the wired channel, in accordance with the telephone number.

15 ~~11. A communication terminal having a radio section comprising:~~

*Sub #5* a radio channel establishing section for establishing a radio channel to a radio communication device connected to a base station;

20 receiving means for receiving a telephone number over the radio channel;

ceasing means for ceasing the established radio channel; and

originating means for originating a call to a party with the received telephone number.

25 ~~12. A communication terminal having a first radio unit for making radio communication with a base station over a first radio channel having a first radio~~

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frequency band, and a second radio unit for making radio communication with another communication terminal by using a second radio channel having a second radio frequency band, the communication terminal comprising:

5           receiving means for receiving information from the base station over the first radio channel;

          sending means for sending the received information to the another communication terminal over the second radio channel while the receiving means receives the  
10           information over the first radio channel.

13. A communication terminal according to claim 12, wherein the another communication terminal includes a master device connected to a public network over a wired channel.

15           14. A communication terminal according to claim 12, further comprising a telephone number obtaining section for receiving a telephone number of a calling party connected to the base station when the radio channel to the base station is connected by the  
20           first channel establishing section, wherein

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          the control section transfers the obtained telephone number to the another communication terminal through the second radio channel.

25           15. A communication terminal according to claim 12, wherein a transmission power of the second radio unit is set to be sufficiently small compared with that of the first radio unit.

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16. A communication terminal according to claim 12, wherein the transmission power of the second radio unit is  $1/10$  or less of the transmission power of the first radio unit.

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